# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L2 | 873 | (380/270).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:06 |
| L3 | 629 | 2 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:06 |
| L4 | 119 | 3 and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:13 |
| L6 | 891 | (713/155).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:08 |
| L7 | 720 | 6 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:08 |
| L8 | 262 | 7 and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:09 |
| L9 | 725 | (713/165).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:09 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L10 | 197 | 9 and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:09 |
| L11 | 2608 | (713/176).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:10 |
| L12 | 816 | 11 and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:10 |
| L13 | 496 | (380/255).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:10 |
| L14 | 96 | 13 and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:11 |
| L15 | 496 | (380/255).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:11 |
| L16 | 96 | 15 and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:11 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L17 | 88 | (380/282).ccls. and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:12 |
| L18 | 273 | (455/41.2).ccls. and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:12 |
| L19 | 136 | (455/41.1).ccls. and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:12 |
| L20 | 52 | (455/41.3).ccls. and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:13 |
| L21 | 412 | (455/557).ccls. and @ay <="2003" and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:13 |
| L22 | 17 | 4 and (one time) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:14 |
| L23 | 4 | 4 and ((one time) with key) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:14 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L24 | 32 | (router or firewall or gateway) with (relation$4 table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:15 |
| L25 | 32 | L24 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:15 |
| L26 | 22 | 25 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:16 |
| L27 | 0 | 26 and 23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:16 |
| L28 | 6 | wireless with remote with secure with print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:16 |
| L29 | 6 | L28 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:16 |
| L30 | 0 | 29 and 23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:17 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L31 | 802 | wireless with remote with print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:17 |
| L32 | 802 | L31 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:17 |
| L33 | 475 | 32 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:18 |
| L34 | 0 | 33 and 23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:18 |
| L35 | 175 | Simpson-shell-s.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:20 |
| L36 | 22 | revel-Daniel.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:23 |
| L37 | 24 | Berkema-alan-c.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:23 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L38 | 62 | hall-david-m.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:24 |
| L39 | 11 | sandfort-patrick-o.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:25 |
| L40 | 29 | Cherry-Darrel-d.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:26 |
| L41 | 39 | Bunn-Jeremy.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:27 |
| L42 | 0 | Oakeson-keneth-l.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:27 |
| L43 | 27 | Oakeson-kenneth-l.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:31 |

# EAST Search History

| | | | | | | |
|---|---|---|---|---|---|---|
| L44 | 1 | ((secure foreign enterprise print) and (cellular telephone) and (first wireless network communication logic) and (discovery logic) and (printer communication logic) and (cellular telephone encryption logic) and (printer) and (network communication logic) and (wireless communication device logic) and (printer encryption logic) and (image forming logic) and (web services provider) and (controller logic) and (print queue data store) and (print queue logic)).clm. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 15:36 |
| L45 | 1 | ((secure foreign enterprise print) and (cellular telephone) and (first wireless network communication logic) and (discovery logic) and (printer communication logic) and (cellular telephone encryption logic) and (printer) and (network communication logic) and (wireless communication device logic) and (printer encryption logic) and (image forming logic) and (web services provider) and (controller logic) and (print queue data store) and (print queue logic) and (one time public/private key)). clm. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 15:37 |
| L46 | 1 | ((secure foreign enterprise print) and (cellular telephone) and (first wireless network communication logic) and (discovery logic) and (printer communication logic) and (cellular telephone encryption logic) and (printer) and (network communication logic) and (wireless communication device logic) and (printer encryption logic) and (image forming logic) and (web services provider) and (controller logic) and (print queue data store) and (print queue logic) and (one time public/private key) and (encrypted session key)).clm. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 15:39 |

# EAST Search History

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|---|---|---|---|---|---|---|
| L47 | 1990 | (358/1.14).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:39 |
| L48 | 9860 | (358/1.15).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:39 |
| L49 | 1354 | 47 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:40 |
| L50 | 1332 | 49 and print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:47 |
| L51 | 0 | 50 and 23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/11/01 15:47 |
| L52 | 0 | 48 and 23 and @ay <="2003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/11/01 15:47 |
| S1 | 6 | "686979".ap. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/17 09:39 |
| S2 | 1 | "6980319".pn. | USPAT | OR | OFF | 2007/05/16 18:16 |

# EAST Search History

| | | | | | | |
|---|---|---|---|---|---|---|
| S3 | 1 | "6744528".pn. | USPAT | OR | OFF | 2007/05/16 18:21 |
| S4 | 1 | "6922258".pn. | USPAT | OR | OFF | 2007/05/16 18:24 |
| S5 | 1 | "6912374".pn. | USPAT | OR | OFF | 2007/11/01 15:08 |
| S6 | 1 | "6859832".pn. | USPAT | OR | OFF | 2007/05/16 18:33 |
| S7 | 1 | "7031661".pn. | USPAT | OR | OFF | 2007/05/16 18:35 |
| S8 | 1 | "6952780".pn. | USPAT | OR | OFF | 2007/05/16 18:58 |
| S9 | 1 | "6711677".pn. | USPAT | OR | OFF | 2007/05/16 19:00 |
| S10 | 1 | "6748471".pn. | USPAT | OR | OFF | 2007/05/16 19:04 |
| S11 | 1 | "6801932".pn. | USPAT | OR | OFF | 2007/05/16 19:09 |
| S12 | 1 | "6978299".pn. | USPAT | OR | OFF | 2007/05/16 19:09 |
| S13 | 67 | Clough-James.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/17 09:53 |
| S14 | 2 | "6714964".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/17 09:53 |
| S15 | 4 | ("20010018330" \| "6378070" \| "6751732").PN. OR ("6912374"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/17 10:43 |
| S16 | 47 | ("20010037462" \| "5068888" \| "5168444" \| "5327486" \| "5459458" \| "5513126" \| "5633932" \| "5692048" \| "5787149" \| "5790790" \| "5802460" \| "5873077" \| "5966663" \| "5983073" \| "6002752" \| "6006087" \| "6008727" \| "6008921" \| "6061448" \| "6119137" \| "6134433" \| "6169805" \| "6184996" \| "6212550" \| "6216158" \| "6233684" \| "6240183" \| "6256378" \| "6272530" \| "6289212" \| "6289389" \| "6297891" \| "6314454" \| "6378070" \| "6389115" \| "6460073" \| "6553240" \| "6591367" \| "6674453").PN. OR ("6751732"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/17 12:10 |

# EAST Search History

| | | | | | | |
|---|---|---|---|---|---|---|
| S17 | 21 | ("20010029531" \| "20040122932" \| "20040139229" \| "5483653" \| "5666159" \| "5862321" \| "5953507" \| "6144997" \| "6201611" \| "6269481" \| "6385728" \| "6493028" \| "6611358" \| "6618763" \| "6665712" \| "6694354" \| "6738614" \| "6738841" \| "6744528" \| "6751732" \| "6757749").PN. OR ("6922725"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/17 11:07 |
| S18 | 0 | "775647".pn. | USPAT | OR | OFF | 2007/05/17 12:10 |
| S19 | 3 | "775647".ap. | USPAT | OR | OFF | 2007/05/17 12:10 |
| S20 | 6 | "686979".ap. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/17 20:25 |
| S21 | 0 | "775647".pn. | USPAT | OR | OFF | 2007/05/17 20:25 |
| S22 | 4 | S20 - S21 | USPAT | OR | OFF | 2007/05/17 20:25 |
| S23 | 1 | "6980319".pn. | USPAT | OR | OFF | 2007/05/17 20:26 |
| S24 | 1 | "6744528".pn. | USPAT | OR | OFF | 2007/05/17 20:26 |
| S25 | 1 | "6922258".pn. | USPAT | OR | OFF | 2007/05/17 20:26 |
| S26 | 1 | "6912374".pn. | USPAT | OR | OFF | 2007/05/17 20:26 |
| S27 | 1 | "6859832".pn. | USPAT | OR | OFF | 2007/05/17 20:26 |
| S28 | 0 | (S20 and S23 and S24 and S25 and S26 and S27) and encrypt$4 | USPAT | OR | ON | 2007/05/17 20:26 |
| S29 | 0 | "6980319".pn. and encrypt$4 | USPAT | OR | OFF | 2007/05/17 20:27 |
| S30 | 1 | "6977745".pn. | USPAT | OR | OFF | 2007/05/18 09:01 |
| S31 | 1 | "7003667".pn. | USPAT | OR | OFF | 2007/05/18 09:20 |
| S32 | 1 | "6862583".pn. | USPAT | OR | OFF | 2007/05/18 09:22 |
| S33 | 1 | "7039810".pn. | USPAT | OR | OFF | 2007/05/18 09:47 |
| S34 | 0 | remote secure print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:48 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S35 | 5 | wireless with remote with secure with print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:52 |
| S36 | 97 | wireless and (remote with secure with print$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:49 |
| S37 | 6 | S36 and (asymmetric or public key or private key)encrypt$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:49 |
| S38 | 6 | S36 and ((asymmetric or public key or private key)encrypt$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:49 |
| S39 | 714 | wireless with remote with print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 10:00 |
| S40 | 131 | S39 and encrypt$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:53 |
| S41 | 19 | S40 and (asymmetric or public key or private key) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 09:53 |

# EAST Search History

| | | | | | | |
|---|---|---|---|---|---|---|
| S42 | 15 | ("4881264" \| "5196840" \| "5633932" \| "5699493" \| "6378070").PN. OR ("6711677"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/18 09:56 |
| S43 | 6122 | wireless and (remote with print$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 10:00 |
| S44 | 2107 | S43 and (encrypt$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 10:01 |
| S45 | 990 | S44 and (asymmetric or public key or privat key) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 10:02 |
| S46 | 12583 | wireless with print$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/18 10:02 |
| S47 | 990 | S44 and (asymmetric or public key or privat key) | US-PGPUB; USPAT | ADJ | ON | 2007/05/18 10:02 |
| S48 | 384 | S44 and (asymmetric or public key or privat key) | USPAT | ADJ | ON | 2007/05/18 10:02 |
| S49 | 4 | ("20010018330" \| "6378070" \| "6751732").PN. OR ("6912374"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/05/18 10:58 |
| S50 | 1 | "6378070".pn. | USPAT | OR | OFF | 2007/05/18 10:58 |
| S51 | 1471 | (request with encrypt$4 with key) | USPAT | OR | ON | 2007/05/18 11:38 |
| S52 | 79 | (request with encrypt$4 with key). ab. | USPAT | OR | ON | 2007/05/18 11:40 |
| S53 | 236 | (request with encrypt$4 with key). ab. | US-PGPUB; USPAT | OR | ON | 2007/05/18 11:40 |
| S54 | 89 | (request with (encryption key)). ab. | US-PGPUB; USPAT | ADJ | ON | 2007/05/18 11:43 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S55 | 1098 | (request with (key)).ab. | US-PGPUB; USPAT | ADJ | ON | 2007/05/18 11:43 |
| S56 | 1098 | (request with (key)).ab. | US-PGPUB; USPAT | ADJ | ON | 2007/05/18 11:43 |
| S57 | 449 | (request with (key)).ab. | USPAT | ADJ | ON | 2007/05/18 11:44 |
| S58 | 449 | (request with (key)).ab. | USPAT | ADJ | ON | 2007/05/18 11:47 |
| S59 | 0 | (S58 and wirless).ab. | USPAT | ADJ | ON | 2007/05/18 11:48 |
| S60 | 10 | (S58 and wireless).ab. | USPAT | ADJ | ON | 2007/05/18 11:48 |
| S61 | 0 | carl-Schlier.att. | US-PGPUB; USPAT | OR | OFF | 2007/05/18 12:31 |
| S62 | 0 | Schlier-carl.att. | US-PGPUB; USPAT | OR | OFF | 2007/05/18 12:31 |
| S63 | 0 | Schlier.att. | US-PGPUB; USPAT | OR | OFF | 2007/05/18 12:32 |
| S64 | 0 | Schlier-Carl-E.att. | US-PGPUB; USPAT | OR | OFF | 2007/05/18 12:32 |
| S65 | 0 | "7225337".pn. | USPAT | OR | OFF | 2007/05/21 16:25 |
| S66 | 36888 | (one-time OT) with ((public private) "adj." (key pair)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/21 16:27 |
| S67 | 9 | (one-time or OT) with (public/private key pair) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 16:48 |
| S68 | 0 | "20020270393".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/21 16:42 |
| S69 | 2 | "5768373".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 16:48 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S70 | 299 | (one-time or OT) with (public key or private key or key pair) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 16:49 |
| S71 | 56 | (one-time or OT) with (key pair) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 16:51 |
| S72 | 11 | (one-time or OT) with (public-private key) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 16:59 |
| S73 | 58 | (one-time or OT) with (public-private key or key pair) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/21 17:00 |
| S74 | 1 | "6385728".pn. | USPAT | OR | OFF | 2007/05/22 11:07 |
| S75 | 1 | "6088119".pn. | USPAT | OR | OFF | 2007/05/22 11:07 |
| S76 | 18969 | gateway with (user relationship table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/22 17:24 |
| S77 | 18970 | gateway with (wirless user relationship table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/05/22 17:24 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S78 | 0 | gateway with (wirless user relationship table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:24 |
| S79 | 0 | gateway with (user relationship table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:24 |
| S80 | 0 | gateway with (user relation table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:24 |
| S81 | 19 | gateway with (relation$4 table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:48 |
| S82 | 0 | gateway with (relation$4 table with user) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:25 |
| S83 | 30 | (router or firewall or gateway) with (relation$4 table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/11/01 15:15 |
| S84 | 1 | S83 with user | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:48 |

# EAST Search History

| | | | | | | |
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| S85 | 30 | (router or firewall or gateway or proxy server) with (relation$4 table) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/05/22 17:57 |
| S86 | 812 | (713/155).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/22 19:46 |
| S87 | 639 | (713/165).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/22 19:46 |
| S88 | 443 | (380/255).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/05/22 19:48 |

# EAST Search History

| | | | | | | |
|---|---|---|---|---|---|---|
| S89 | 198 | ("5873106" "6379665" "4991949" "5438345" "6335144" "6342343" "6455222" "6475695" "4872119" "20050084113" "4769086" "5998752" "6030224" "20030163375" "5198723" "5615330" "5740437" "5784701" "5867662" "5915096" "6195545" "6272495" "6292830" "6456995" "6023736" "6038603" "6385643" "6934931" "20010049595" "4816321" "4816322" "5655083" "6055063" "6212534" "6212534" "6657702" "20020065741" "4312267" "4756473" "4999506" "4143770" "4082188" "4276183" "4515491" "4593895" "5237747" "5307970" "5359394" "5585916" "5670998" "6365659" "6403183" "6423458" "4281333" "4280615" "4318111" "4522671" "4983482" "5021806" "5203636" "5214022" "6081678" "6319645" "6322941" "6403796" "20040246290" "5181239" "5337503" "5490208" "5504897" "5506634" "5548726" "5613163" "5644711" "5727174" "5758126" "5797016" "5835762" "6053018" "6112194" "6141658" "6216127" "6222827" "6216127" "6222827" "6292889" "6466975" "6473748" "20050187802" "20060174033" "4364058" "4875070" "6081306" "4139387" "4254897" "4254595" "4259953" "4266689" "4267263" "4317162" ).pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/05/22 19:48 |
| S90 | 5 | "686979".ap. | US-PGPUB; USPAT | OR | OFF | 2007/11/01 15:05 |

Interference search

# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L46 | 1 Current application | ((secure foreign enterprise print) and (cellular telephone) and (first wireless network communication logic) and (discovery logic) and (printer communication logic) and (cellular telephone encryption logic) and (printer) and (network communication logic) and (wireless communication device logic) and (printer encryption logic) and (image forming logic) and (web services provider) and (controller logic) and (print queue data store) and (print queue logic) and (one time public/private key) and (encrypted session key)).clm. | US-PGPUB; USPAT | ADJ | ON | 2007/11/01 15:38 |

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1 A survey on peer-to-peer key management for mobile ad hoc networks

Johann Van Der Merwe, Dawoud Dawoud, Stephen McDonald

April 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 1

**Publisher:** ACM Press

Full text available: pdf(872.71 KB) Additional Information: full citation, abstract, references, index terms

The article reviews the most popular peer-to-peer key management protocols for mobile ad hoc networks (MANETs). The protocols are subdivided into groups based on their design strategy or main characteristic. The article discusses and provides comments on the strategy of each group separately. The discussions give insight into open research problems in the area of pairwise key management.

**Keywords**: Mobile ad hoc networks, pairwise key management, peer-to-peer key management, security

2 A methodology for analyzing the performance of authentication protocols

Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

**Keywords**: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

3

On interdomain routing security and pretty secure BGP (psBGP)
P.C. van Oorschot, Tao Wan, Evangelos Kranakis
July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3
**Publisher:** ACM Press
Full text available: pdf(469.49 KB) Additional Information: full citation, abstract, references, index terms

It is well known that the Border Gateway Protocol (BGP), the IETF standard interdomain routing protocol, is vulnerable to a variety of attacks, and that a single misconfigured or malicious BGP speaker could result in large-scale service disruption. In this paper, we present *Pretty Secure BGP (psBGP)*---a proposal for securing BGP, including an architectural overview, design details for significant aspects, and preliminary security and operational analysis. psBGP differs from other secur ...

**Keywords:** BGP, authentication, certificates, interdomain routing, public-key infrastructure, secure routing protocols, trust

4 SOUPS du jour: Bitfrost: the one laptop per child security model
Ivan Krstić, Simson L. Garfinkel
July 2007 **Proceedings of the 3rd symposium on Usable privacy and security SOUPS '07**
**Publisher:** ACM Press
Full text available: pdf(500.47 KB) Additional Information: full citation, abstract, references, index terms

We present an integrated security model for a low-cost laptop that will be widely deployed throughout the developing world. Implemented on top of Linux operating system, the model is designed to restrict the laptop's software without restricting the laptop's user.

**Keywords:** Bitfrost, Linux, usability

5 Securing IPv6 neighbor and router discovery
Jari Arkko, Tuomas Aura, James Kempf, Vesa-Matti Mäntylä, Pekka Nikander, Michael Roe
September 2002 **Proceedings of the 1st ACM workshop on Wireless security WiSE '02**
**Publisher:** ACM Press
Full text available: pdf(113.58 KB) Additional Information: full citation, abstract, references, cited by, index terms

When IPv6 Neighbor and Router Discovery functions were defined, it was assumed that the local link would consist of mutually trusting nodes. However, the recent developments in public wireless networks, such as WLANs, have radically changed the situation. The nodes on a local link cannot necessarily trust each other any more, but they must become mutually suspicious even when the nodes have completed an authentication exchange with the network. This creates a number of operational difficulties a ...

**Keywords:** autoconfiguration, detection, duplicate address, identity-based cryptosystems, neighbor discovery, router discovery

6 A secure infrastructure for service discovery and access in pervasive computing
Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi
April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2
**Publisher:** Kluwer Academic Publishers
Additional Information:

Full text available: pdf(308.34 KB) full citation, abstract, references, citings, index terms

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...

**Keywords**: distributed services, extensible markup language, pervasive computing, security, smartcards

7 Self

David Ungar, Randall B. Smith

June 2007 **Proceedings of the third ACM SIGPLAN conference on History of programming languages HOPL III**

**Publisher:** ACM Press

Full text available: pdf(1.70 MB) Additional Information: full citation, appendices and supplements, abstract, references, index terms

The years 1985 through 1995 saw the birth and development of the language Self, starting from its design by the authors at Xerox PARC, through first implementations by Ungar and his graduate students at Stanford University, and then with a larger team formed when the authors joined Sun Microsystems Laboratories in 1991. Self was designed to help programmers become more productive and creative by giving them a simple, pure, and powerful language, an implementation that combined ease of use wit ...

**Keywords**: Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

8 Some assembly required: building a digital government for the 21st century

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher

May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**

**Publisher:** Digital Government Research Center

Full text available: pdf(889.22 KB) Additional Information: full citation, references

9 Some assembly required: building a digital government for the 21st century

Sharon S. Dawes, Peter A. Bloniarz, Kristine L. Kelly, Patricia D. Fletcher

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

**Publisher:** Digital Government Research Center

Full text available: pdf(889.21 KB) Additional Information: full citation, abstract, references, citings

This material is based upon work supported in part by the National Science Foundation under Grant No. 99-181. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

10 Link and channel measurement: A simple mechanism for capturing and replaying

wireless channels
Glenn Judd, Peter Steenkiste
August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**
**Publisher:** ACM Press
Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

**Keywords**: channel capture, emulation, wireless

11 Access control to people location information
Urs Hengartner, Peter Steenkiste
November 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 4
**Publisher:** ACM Press
Full text available: pdf(356.85 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is a sensitive piece of information that only authorized entities should be able to learn. Several challenges arise in the specification and implementation of policies controlling access to location information. For example, there can be multiple sources of location information. The sources can be within different administrative domains, which might allow differen ...

**Keywords**: Certificates, DSA, RSA, SPKI/SDSI, credential discovery, delegation, location, privacy, trust

12 PP-trust-X: A system for privacy preserving trust negotiations
A. Squicciarini, E. Bertino, Elena Ferrari, F. Paci, B. Thuraisingham
July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3
**Publisher:** ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, index terms

Trust negotiation is a promising approach for establishing trust in open systems, in which sensitive interactions may often occur between entities with no prior knowledge of each other. Although, to date several trust negotiation systems have been proposed, none of them fully address the problem of privacy preservation. Today, privacy is one of the major concerns of users when exchanging information through the Web and thus we believe that trust negotiation systems must effectively address pr ...

**Keywords**: Access control, attribute-based access control, automated trust negotiation, credentials, privacy, strategy

13 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining
Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2

**Publisher:** ACM Press

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

**Keywords**: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

**14** Satchel: providing access to any document, any time, anywhere

Mik Lamming, Marge Eldridge, Mike Flynn, Chris Jones, David Pendlebury

September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3

**Publisher:** ACM Press

Full text available: pdf(591.29 KB) Additional Information: full citation, abstract, references, citings, index terms

Current solutions for providing access to electronic documents while away from the office do not meet the special needs of mobile document workers. We describe "Satchel," a system that is designed specifically to support the distinctive features of mobile document work. Satchel is designed to meet the following five high-level design goals (1) easy access to document services; (2) timely document access; (3) streamlined user interface; (4) ubiquity; and (5)compliance with securi ...

**Keywords**: document access, document appliance, document processing, information appliance, mobile computing, mobile work

**15** Next generation access control models: Implementing access control to people location information

Urs Hengartner, Peter Steenkiste

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies SACMAT '04**

**Publisher:** ACM Press

Full text available: pdf(164.30 KB) Additional Information: full citation, abstract, references, citings, index terms

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is asensitive piece of information, which only authorized entities should be able to learn. Several challenges arise in the specification and implementation of policies controlling access to location information. For example, there can be multiple sources of location information, the sources can be within different administrative domains, different administrative ...

**Keywords**: certificates, delegation, dsa, location, rsa, spki/sdsi, trust

**16** Tools & techniques: NodeMD: diagnosing node-level faults in remote wireless sensor systems

Veljko Krunic, Eric Trumpler, Richard Han

June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

**Publisher:** ACM Press
Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, index terms

Software failures in wireless sensor systems are notoriously difficult to debug. Resource constraints in wireless deployments substantially restrict visibility into the root causes of node-level system and application faults. At the same time, the high cost of deployment ofwireless sensor systems often far exceeds the cumulative cost of allother sensor hardware, so that software failures that completely disable a node are prohibitively expensive to repair in real worldapplications, e.g. by on ...

**Keywords**: deployment, diagnosis, software fault, wireless sensor networks

17 Secure authentication system for public WLAN roaming
Ana Sanz Merino, Yasuhiko Matsunaga, Manish Shah, Takashi Suzuki, Randy H. Katz
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3
**Publisher:** Kluwer Academic Publishers
Full text available: pdf(2.43 MB) Additional Information: full citation, abstract, references, index terms

A serious challenge for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication schemes, which may vary from one provider to the next. We have designed and implemented a comprehensive single sign-on (SSO) authentication architecture that confederates WLAN service providers through trusted identity providers. Users select the app ...

**Keywords**: authentication, link layer security, policy control, roaming, wireless LAN

18 Defensive techniques: SCUBA: Secure Code Update By Attestation in sensor networks
Arvind Seshadri, Mark Luk, Adrian Perrig, Leendert van Doorn, Pradeep Khosla
September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**
**Publisher:** ACM Press
Full text available: pdf(194.86 KB) Additional Information: full citation, abstract, references, index terms

This paper presents SCUBA (Secure Code Update By Attestation), for detecting and recovering compromised nodes in sensor networks. The SCUBA protocol enables the design of a sensor network that can detect compromised nodes without false negatives, and either repair them through code updates, or revoke the compromised nodes. The SCUBA protocol represents a promising approach for designing secure sensor networks by proposing a first approach for automatic recovery of compromised sensor nodes. The S ...

**Keywords**: externally-verifiable code execution, secure code update, self-checksumming code, software-based attestation

19 Applications, services, and architecture: Smart edge server: beyond a wireless access point
G. Manjunath, T. Simunic, V. Krishnan, J. Tourrilhes, D. Das, V. Srinivasmurthy, A. McReynolds
October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '04**
**Publisher:** ACM Press
Full text available: pdf(410.68 KB) Additional Information: full citation, abstract, references, index terms

Wireless access at cafes, airports, homes and businesses have proliferated all over the globe with several different Wireless Internet Service Providers. Similarly, digital media has created a paradigm shift in media processing resulting in a complete change in media usage models, revamped existing businesses and has introduced new industry players. We believe there is a tremendous opportunity for application and system services at the intersection of the above two domains for exploiting the ...

**Keywords**: access point, low-power, management, media, security, wireless

**20** The Satchel system architecture: mobile access to documents and services

Mike Flynn, David Pendlebury, Chris Jones, Marge Eldridge, Mik Lamming
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4
**Publisher:** Kluwer Academic Publishers

Full text available: pdf(207.51 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile professionals require access to documents and document‐related services, such as printing, wherever they may be. They may also wish to give documents to colleagues electronically, as easily as with paper, face‐to‐ face, and with similar security characteristics. The Satchel system provides such capabilities in the form of a mobile browser, implemented on a device that professional people would be likely to carry anyway, such as a pager or mobile phone. Printing may be per ...

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